10/658,715 => d ibib abs hitstr 1-9

ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

2004:569555 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 141:76328

Fluorescent monomers and tagged treatment polymers TITLE:

containing same for use in industrial water systems

Morris, John D.; Moriarty, Barbara E.; Wei, Mingli; INVENTOR(S):

Murray, Patrick G.; Reddinger, Jerry L.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S.

6,645,428.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 2004135125	A1	20040715	US 2003-658715	20030909	
US 6645428	B1	20031111	US 2000-560881	20000427	
TW 570969	В	20040111	TW 2001-90109652	20010703	
ZA 2002007690	Α	20030925	ZA 2002-7690	20020925	
PRIORITY APPLN. INFO.:			US 2000-560881	A2 20000427	

Fluorescent monomers are described and claimed which are synthesized by AB reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems.

IT 371239-16-6P 371239-17-7P

> RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)

RN371239-16-6 CAPLUS

7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, CN 7-oxo-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)

371239-17-7 RN CAPLUS

7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, CN 2-[(4-ethenylphenyl)methoxy]-7-oxo- (9CI) (CA INDEX NAME)

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:569554 CAPLUS

DOCUMENT NUMBER: 141:76327

TITLE: Fluorescent monomers and tagged treatment polymers

containing same for use in industrial water systems Morris, John D.; Moriarty, Barbara E.; Wei, Mingli;

Murray, Patrick G.; Reddinger, Jerry L.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 16 pp., Cont.-in-part of U.S.

6,645,428.
CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

INVENTOR(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
US 2004135124	A1	20040715	US 2003-658648	20030909
US 6645428	B1	20031111	US 2000-560881	20000427
TW 570969	В	20040111	TW 2001-90109652	20010703
ZA 2002007690	A	20030925	ZA 2002-7690	20020925
PRIORITY APPLN. INFO.:			US 2000-560881	A2 20000427
OTHER SOURCE(S):	MARPAT	141:76327		

Fluorescent monomers are described and claimed which are synthesized by reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems.

IT 371239-16-6P 371239-17-7P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)

RN 371239-16-6 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, 7-oxo-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)

RN 371239-17-7 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, 2-[(4-ethenylphenyl)methoxy]-7-oxo- (9CI) (CA INDEX NAME)

L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:252014 CAPLUS

DOCUMENT NUMBER: 140:294906

TITLE: Anisotropic films based on 1,8-naphthoylene-1',2'-

benzimidazole sulfonates and lyotropic liquid crystal

systems and methods for making

INVENTOR(S): Dutova, Tatyana Ya.; Sidorenko, Elena N.

PATENT ASSIGNEE(S): Nitto Denko Corporation, Japan SOURCE: U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE ----US 2004058091 A1 US 2003-601238 20040325 20030620 US 7026019 B2 20060411 WO 2004003599 WO 2003-US20260 **A2** 20040108 20030625 **A3** WO 2004003599 20040226 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20040119 AU 2003-279856 AU 2003279856 **A1** 20030625 EP 1551902 A2 20050713 EP 2003-742256 20030625 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK 20051020 JP 2005531636 T2 JP 2004-517930 20030625 US 2006062932 **A1** 20060323 US 2005-212825 20050825 PRIORITY APPLN. INFO.: RU 2002-117253 A 20020628 US 2003-601238 A 20030620 WO 2003-US20260 W 20030625

OTHER SOURCE(S): MARPAT 140:294906

Optically anisotropic films based on sulfoderivatives of 1,8-naphthoylene-1',2'-benzimidazole are disclosed. These compds. form stable lyotropic liquid crystal systems that exhibit excellent optical properties with films that are significantly thinner that the current state of the art. The lyotropic liquid crystal systems may be deposited on substrates for use in a wide variety of com. applications.

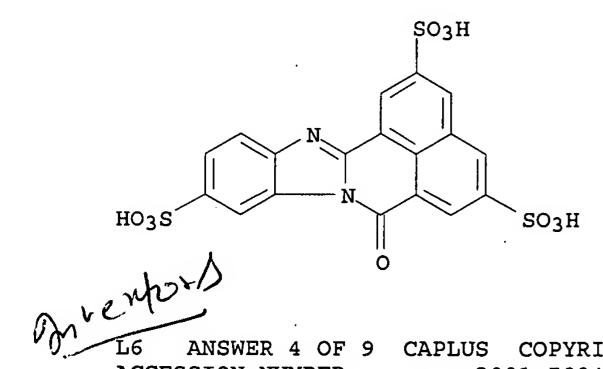
IT675819-17-7P

> RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(anisotropic films based on 1,8-naphthoylene-1',2'-benzimidazole sulfonates and lyotropic liquid crystal systems)

RN675819-17-7 CAPLUS

7H-Benzimidazo[2,1-a]benz[de]isoquinoline-2,5,10-trisulfonic acid, 7-oxo-CN (CA INDEX NAME) (9CI)



ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:798496 CAPLUS

DOCUMENT NUMBER: 135:348686

TITLE: Fluorescent monomers and tagged treatment polymers

containing same for use in industrial water systems Morris, John D.; Moriarty, Barbara E.; Wei, Mingli;

Murray, Patrick Gerard; Reddinger, Jerry L.

Ondeo Nalco Company, USA PATENT ASSIGNEE(S):

PCT Int. Appl., 93 pp. SOURCE:

3

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

INVENTOR(S):

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2001081654 **A1** 20011101 WO 2001-US13567 20010425

```
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
            RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
            YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    US 6645428
                         B1
                                20031111
                                            US 2000-560881
                                                                   20000427
                                            CA 2001-2404311
    CA 2404311
                          AA
                                20011101
                                                                   20010425
    AU 2001057335
                         A5
                                20011107
                                            AU 2001-57335
                                                                   20010425
                                            EP 2001-930837
    EP 1282732
                         A1
                                20030212
                                                                   20010425
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    JP 2003531283
                                            JP 2001-578720
                          T2
                                20031021
                                                                   20010425
    TW 570969
                          В
                                20040111
                                            TW 2001-90109652
                                                                   20010703
    ZA 2002007690
                          A
                                20030925
                                            ZA 2002-7690
                                                                   20020925
PRIORITY APPLN. INFO.:
                                                                A 20000427
                                            US 2000-560881
                                            WO 2001-US13567
                                                                W 20010425
```

OTHER SOURCE(S): MARPAT 135:348686

Fluorescent monomers are described and claimed which are synthesized by reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems. In many industrial water systems that employ polymers as water treatment agents it may be desirable to tag or mark such polymers to facilitate monitoring thereof.

IT 371239-16-6P 371239-17-7P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)

RN 371239-16-6 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, 7-oxo-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)

RN 371239-17-7 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-11-carboxylic acid, 2-[(4-ethenylphenyl)methoxy]-7-oxo- (9CI) (CA INDEX NAME)

10/658,715

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:19993 CAPLUS

106:19993 DOCUMENT NUMBER:

Naphthoylenebenzimidazole dyes TITLE:

INVENTOR(S): Himeno, Kiyoshi; Yoshihara, Junji Mitsubishi Chemical Industries Co., Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 6 pp. SOURCE: CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	AP	PLICATION NO.	DATE
JP 61072067	A2	19860414	 TP	1984-194400	19840917
JP 05039990	B4	19930616	Ų.	1704 174400	17040717
PRIORITY APPLN. INFO.:				1984-194400	19840917
OTHER SOURCE(S): GI	CASREA	ACT 106:19993			

RO
$$\sim$$
 C1 \sim N \sim III \sim N \sim N

AB Naphthoylenebenzimidazole compds. I (R = alkoxyalkyl; Z = arylene) dye polyester fibers, plastics, and paper with good temperature dependence and buildup properties. Thus, KOH was dissolved in diethylene glycol monomethyl ether at 60°, and II was added, forming III as yellow crystals. Polyester fabric dyed with aqueous dispersions of III showed temperature

dependence 95% (120°/130°) and buildup 95% (6%/3%).

IT 106028-15-3P 106028-16-4P 106028-17-5P

RL: PREP (Preparation)

(manufacture of, as dye for polyester fibers and plastics)

RN 106028-15-3 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 11-methoxy-3,4-bis[2-(2-methoxyethoxy)ethoxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{MeO} \\ \text{MeO} \\ \text{N} \\ \text{O} \end{array} \\ \begin{array}{c} \text{O} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{O} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{O} \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{O} \\ \text{CH}_2 \\ \text{O} \end{array} \\ \begin{array}{c} \text{CH}_2 \\ \text{CH}_2 \\ \text{O} \\ \text{CH}_2 \\ \text{O} \\ \text{O$$

RN 106028-16-4 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 3,4-bis[2-(2-ethoxyethoxy)ethoxy]-11-methoxy- (9CI) (CA INDEX NAME)

RN 106028-17-5 CAPLUS

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 3,4-bis[2-(2-butoxyethoxy)ethoxy]-11-methoxy- (9CI) (CA INDEX NAME)

L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1965:59469 CAPLUS DOCUMENT NUMBER: 62:59469

ORIGINAL REFERENCE NO.: 62:10574d-h
TITLE: Disperse dyes
INVENTOR(S): Chiaki, Hisashi

PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd.

SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PRIO	JP 39027120 RITY APPLN. INFO.:	B4	19640000	JP JP	19630705 19630705
AB	halogen) with ROH, presence of alkalin in 150 cc. MeOH was refluxed 10 hrs., to MeOH and H2O to give bright green-yellow = SO3Na, A = IV) by MeOH. The followin 1,2-C10H6, 241-9°, green-yellow; MeO, 1,8-C10H6, >310°, both PhO, IV, 98-108°, both MeO(CH2)2O, IV, 130°	where Recondering I were yellow; 1,2-C6Heliue-rediright y -60°, y	is an alkylensing agents d with 10 g. sipitate filt [X = MeO]. V (6.3 g. sing 20 hrs. se prepared: MeO, 1,2-C6. [3Me-3, 168-7]; HO(CH2)2O, sellow; BuO, sellow; Me2N(2°, green-yellow; MeO, IV, 272-6°, yellow; IV, 249-52°, yellow;	roup, in the tion of 15 g. NaOH 30Me-4 (IV)], shed with 50 cc. o, m 10 g. I (X NaOH in 200 cc. I; MeO,
IT	_	midazo[e]isoquinolin-7-one,	
	a]benz[de]isoquinol (preparation of)			7H-Benzimidazo[2,1- -methoxyethoxy)-	
RN	3598-74-1 CAPLUS				

7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 3-(2-hydroxyethoxy)methoxy-

$$\begin{array}{c|c} \text{MeO} & \begin{array}{c} \text{O-CH}_2\text{-CH}_2\text{-OH} \\ \\ \text{O} \end{array}$$

(7CI, 8CI) (CA INDEX NAME)

RN 4353-71-3 CAPLUS

CN

CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, methoxy(2-methoxyethoxy)-(7CI, 8CI) (CA INDEX NAME)

$$\begin{array}{c} \text{MeO} \\ \\ \text{N} \\ \\ \text{O} \end{array}$$

ANSWER 7 OF 9 L6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1965:59468 CAPLUS

DOCUMENT NUMBER: 62:59468 ORIGINAL REFERENCE NO.: 62:10574d-h Disperse dyes TITLE: INVENTOR (S): Chiaki, Hisashi

Mitsubishi Chemical Industries Co., Ltd. PATENT ASSIGNEE(S):

SOURCE: 3 pp. Patent DOCUMENT TYPE: Unavailable LANGUAGE:

FAMILY ACC. NUM. COUNT:

3598-74-1 CAPLUS

PATENT INFORMATION:

RN

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 39027119	B4	19641127	JP	19630703
PRIORITY APPLN. INFO.:			JP	19630703

For diagram(s), see printed CA Issue. GI The title dyes I (X = halogen), where A is a 1,2-phenylene, 1,2-, or AB 1,8-naphthylene residue which may be substituted in the nucleus, were prepared by treatment of I (X = SO3Na) (II) with a combination of hydrogen halide and alkali halate. The dyes are light and sublimation fast and suitable for polyester fibers (III). Thus, a solution of 40 g. II (A = 1,2-C6H4) in 1200 cc. H2O was treated with 250 g. concentrated HCl, followed by dropwise addition of 23 g. NaClO3 in 70 cc. H2O at 95° during 10 hrs., stirred 3 hrs. at $95-100^{\circ}$ and the precipitate filtered to give I (X = Cl, A = 1,2-C6H4), m. 227-31.5° bright green-yellow on III. following I were prepared: X, A, m.p., Color on III; Br, 1,8-C10H6, 222-9.5°, red-brown; Cl, 1,2-C6H3Me-3, 163-9°, green-yellow; Cl, 1,2-C6H8OMe-4, 245-9°, green-yellow; Cl, 1,2-C10H6, 236-42°, clear yellow; Cl, 1,2-Cl0H3Br-4, 267-79°, orange-yellow; Cl, 1,8-C10H6, 201-18°, brown; Br, 1,2-C6H3OMe-4, 213-28°, clear yellow; Br, 1,2-C10H6, 210.5-15°, clear yellow; 3598-74-1, 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, IT 3-(2-hydroxyethoxy) methoxy- 4353-71-3, 7H-Benzimidazo[2,1a]benz[de]isoquinolin-7-one, methoxy(2-methoxy)-

(preparation of)

7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, 3-(2-hydroxyethoxy)methoxy-CN (7CI, 8CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{MeO} & \text{O-CH}_2\text{-CH}_2\text{-OH} \\ \hline \end{array}$$

RN 4353-71-3 CAPLUS

7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one, methoxy(2-methoxy)-CN (7CI, 8CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{MeO} & \text{O-CH}_2\text{-CH}_2\text{-OMe} \\ \hline \\ \text{N} & \text{O} \end{array}$$

CAPLUS COPYRIGHT 2006 ACS on STN L6 ANSWER 8 OF 9

ACCESSION NUMBER: 1959:89503 CAPLUS

DOCUMENT NUMBER: 53:89503 ORIGINAL REFERENCE NO.: 53:16156d-e

Naphthoylenebenzimidazole-peri-dicarboxylic acids TITLE:

INVENTOR(S): Eckert, Wilhelm; Fuchs, Otto

Farberke Hoechst AG vorm. Meister Lucius & Bruning PATENT ASSIGNEE(S):

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE 1005969		19570411	DE 1954-F14322	19540331
AB	See U.S. 2,835,674	(C.A.	53, 6255d).		

116665-71-5, 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-3,4-IT dicarboxylic acid, 10-ethoxy-7-oxo-(preparation of)

116665-71-5 CAPLUS RN

7H-Benzimidazo[2,1-a]benz[de]isoquinoline-3,4-dicarboxylic acid, CN 10-ethoxy-7-oxo- (6CI) (CA INDEX NAME)

ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN L6

ACCESSION NUMBER: 1959:34873 CAPLUS

DOCUMENT NUMBER: 53:34873 ORIGINAL REFERENCE NO.: 53:6255d-f

Naphthoylenebenzimidazole-peri-dicarboxylic acids TITLE:

Eckert, Wilhelm; Fuchs, Otto INVENTOR(S):

Farbwerke Hoechst AG PATENT ASSIGNEE(S):

DOCUMENT TYPE: Patent Unavailable LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE US 2835674 19580520 US 1955-496921 ABCondensation of 1,4,5,8-naphthalenetetra-carboxylic acid (I) with o-phenylenediamine (II) (or with substituted II) in aqueous media of high salt concentration buffered at pH 5.0-5.8 yields the insol. mono-Na salt (III) of N-phenyl-naphthalimide-1,8-dicarboxylic acid (IV), readily converted in near-quant. over-all yield to naphthoylenebenzimidazole-peridicarboxylic acid (V) (or the corresponding anhydride), useful as a dye intermediate. Thus, 300 g. I is dissolved in a hot solution of 2 kg. crystalline

NaOAc in 9 l. H2O, 130 g. II added, the mixture stirred 8-10 hrs. at 75°, cooled, the precipitated III (fine light yellow prisms) filtered off, washed with 10% aqueous NaCl, suspended in 3 l. H2O, dissolved by addition of aqueous

Na2CO3, and filtered free of small amts. of alkali-insol. material. Addition of dilute HCl to the cold filtrate yields IV. Acidification at the b.p. of the filtrate and boiling the resulting mixture for some time converts IV to V (or its anhydride), orange powder yielding yellow alkaline solns. III is also prepared by heating 30 g. I, 14 g. II, 286 g. borax, and 500 g. NaH2PO4 in 800 ml. H2O 6 hrs. at 75°. Use of substituted II gives 4-Cl, 4,5-di-Cl, 4-Me, and 4-OEt derivs. of V.

IT116665-71-5, 7H-Benzimidazo[2,1-a]benz[de]isoquinoline-3,4dicarboxylic acid, 10-ethoxy-7-oxo-(preparation of)

RN116665-71-5 CAPLUS

CN

7H-Benzimidazo[2,1-a]benz[de]isoquinoline-3,4-dicarboxylic acid, 10-ethoxy-7-oxo- (6CI) (CA INDEX NAME)

=> d his

L1

(FILE 'HOME' ENTERED AT 10:48:38 ON 12 JUL 2006)

FILE 'REGISTRY' ENTERED AT 10:48:54 ON 12 JUL 2006 STRUCTURE UPLOADED

10/658,715

L2 50 S L1

L3 STRUCTURE UPLOADED

L4 1 S L3

L5 17 S L3 FULL

FILE 'CAPLUS' ENTERED AT 10:53:24 ON 12 JUL 2006

L6 9 S L5

=> d l1

L1 HAS NO ANSWERS

L1. STR

Structure attributes must be viewed using STN Express query preparation.

=> d 13 L3 HAS NO ANSWERS

L3 STR

Structure attributes must be viewed using STN Express query preparation.